



SEQUENCE LISTING

<10> Kwon, Byoung S.

<120> MURINE 4-1BB GENE

<130> 740.009US1

<140> US 08/012,269

<141> 1993-02-01

<150> US 07/922,996

<151> 1992-07-30

<150> US 07/267,572

<151> 1988-11-07

<160> 13

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 2350

<212> DNA

<213> Mus musculus

<220>

<221> misc_feature

<222> (1)...(2350)

<223> n = A,T,C or G

<400> 1

atgtccatga actgctgagt ggataaacag cacgggatat ctctgtctaa aggaatatta 60
ctacaccagg aaaaggacac attcgacaac aggaaaggag cctgtcacag aaaaccacag 120
tgtcctgtgc atgtgacatt tcgccatggg aaacaactgt tacaacgtgg tggtcattgt 180
gctgctgcta gtgggctgtg agaagggtggg agccgtgcag aactcctgtg ataactgtca 240
gcctggtact ttctgcagaa aatacaatcc agtctgcaag agctgccctc caagtacctt 300
ctccagcata ggtggacagc cgaactgtaa catctgcaga gtgtgtgcag gctattttcag 360
gttcaagaag ttttgcctct ctaccacaaa cgcggagtgt gagtgcattg aaggattcca 420
ttgcttgggg ccacagtga ccagatgtga aaaggactgc aggcctggcc aggagctaac 480
gaagcagggg tgcaaaacct gtagcttggg aacatttaat gaccagaacg gtactggcgt 540
ctgtcgacc ttggacgaact gctctctaga cgggaaggct gtgcttaaga ccggggaccac 600
ggagaaggac gtgggtgtgtg gacccccctgt ggtgagcttc tctcccagta ccaccatttc 660
tgtgactcca gagggaggac caggagggca ctccctgcag gtccttacct tgttcctggc 720
gctgacatcg gctttgctgc tggccctgat cttcattact ctctgttct ctgtgctcaa 780
atggatcagg aaaaaattcc cccacatatt caagcaacca ttttaagaaga cactggagc 840
agctcaagag gaagatgctt gtagctgccg atgtccacag gaagaagaag gagggaggg 900
aggctatgag ctgtgatgta ctatcctagg agatgtgtgg gccgaaaccg agaagcacta 960
ggacccacc atcctgtgga acagcacaag caacccacc accctgttct tacacatcat 1020
cctagatgat gtgtgggcgc gcacctcatc caagtctctt ctaacgctaa catatttgtc 1080
tttacctttt ttaaatcttt ttttaaattt aaattttatg tgtgtgagtg ttttgctgc 1140
ctgtatgcac acgtgtgtgt gtgtgtgtgt gtgacactcc tgatgcctga ggaggtcaga 1200
agagaaaggg ttggttccat aagaactgga gttatggatg gctgtgagcc ggnnngatag 1260
gtcgggacgg agacctgtct tcttatttta acgtgactgt ataataaaaa aaaaatgata 1320
tttcgggaat tgtagagatt ctccctgacac ctttctagtt aatgatctaa gaggaattgt 1380
tgatacgtag tatactgtat atgtgtatgt atatgtatat gtatatataa gactctttta 1440
ctgtcaaagt caacctagag tgtctgggta ccagggtcaat tttattggac attttacgtc 1500
acacacacac acacacacac acacacacgt ttatactacg tactgttatc ggtattctac 1560
gtcatataat gggatagggg aaaaggaaaac caaagagtga gtgatattat tgtggagggtg 1620

acagactacc ccttctgggt acgtagggac agacctcctt cggactgtct aaaactcccc 1680
 ttagaagtct cgtcaagttc ccggacgaag aggacagagg agacacagtc cgaaaagtta 1740
 tttttccggc aaatcctttc cctgtttcgt gacactccac cccttggtga cacttgagtg 1800
 tcatccttgc gccggaaggt caggtggtac ccgtctgtag gggcggggag acagagccgc 1860
 gggggagcta cgagaatcga ctcacagggc gccccgggct tcgcaaataa aactttttta 1920
 atctcacaag tttcgtccgg gctcggcgga cctatggcgt cgatccttat taccttatcc 1980
 tggcgccaag ataaaacaac caaaagcctt gactccggtta ctaattctcc ctgccggccc 2040
 ccgtaagcat aacgcggcga tctccacttt aagaacctgg ccgcgttctg cctgggtctcg 2100
 ctttcgtaaa cggttcttac aaaagtaatt agttcttgc ttcagcctcc aagcttctgc 2160
 tagtctatgg cagcatcaag gctgggtattt gctacggctg accgctacgc cgccgcaata 2220
 aggggtactgg gcggcccgtc gaaggccctt tggtttcaga aaccaaggc cccctcata 2280
 ccaacgtttc gactttgatt cttgccggta cgtgggtggtg ggtgccttag ctctttctcg 2340
 atagttagac 2350

<210> 2

<211> 256

<212> PRT

<213> Mus musculus

<400> 2

Met	Gly	Asn	Asn	Cys	Tyr	Asn	Val	Val	Val	Ile	Val	Leu	Leu	Leu	Val
1				5					10					15	
Gly	Cys	Glu	Lys	Val	Gly	Ala	Val	Gln	Asn	Ser	Cys	Asp	Asn	Cys	Gln
			20					25					30		
Pro	Gly	Thr	Phe	Cys	Arg	Lys	Tyr	Asn	Pro	Val	Cys	Lys	Ser	Cys	Pro
		35					40					45			
Pro	Ser	Thr	Phe	Ser	Ser	Ile	Gly	Gly	Gln	Pro	Asn	Cys	Asn	Ile	Cys
	50					55					60				
Arg	Val	Cys	Ala	Gly	Tyr	Phe	Arg	Phe	Lys	Lys	Phe	Cys	Ser	Ser	Thr
65					70				75					80	
His	Asn	Ala	Glu	Cys	Glu	Cys	Ile	Glu	Gly	Phe	His	Cys	Leu	Gly	Pro
			85						90					95	
Gln	Cys	Thr	Arg	Cys	Glu	Lys	Asp	Cys	Arg	Pro	Gly	Gln	Glu	Leu	Thr
		100						105					110		
Lys	Gln	Gly	Cys	Lys	Thr	Cys	Ser	Leu	Gly	Thr	Phe	Asn	Asp	Gln	Asn
	115						120					125			
Gly	Thr	Gly	Val	Cys	Arg	Pro	Trp	Thr	Asn	Cys	Ser	Leu	Asp	Gly	Arg
	130					135					140				
Ser	Val	Leu	Lys	Thr	Gly	Thr	Thr	Glu	Lys	Asp	Val	Val	Cys	Gly	Pro
145				150					155					160	
Pro	Val	Val	Ser	Phe	Ser	Pro	Ser	Thr	Thr	Ile	Ser	Val	Thr	Pro	Glu
			165						170					175	
Gly	Gly	Pro	Gly	Gly	His	Ser	Leu	Gln	Val	Leu	Thr	Leu	Phe	Leu	Ala
		180						185					190		
Leu	Thr	Ser	Ala	Leu	Leu	Leu	Ala	Leu	Ile	Phe	Ile	Thr	Leu	Leu	Phe
	195						200					205			
Ser	Val	Leu	Lys	Trp	Ile	Arg	Lys	Lys	Phe	Pro	His	Ile	Phe	Lys	Gln
	210					215					220				
Pro	Phe	Lys	Lys	Thr	Thr	Gly	Ala	Ala	Gln	Glu	Glu	Asp	Ala	Cys	Ser
225				230					235					240	
Cys	Arg	Cys	Pro	Gln	Glu	Glu	Glu	Gly	Gly	Gly	Gly	Gly	Tyr	Glu	Leu
			245					250						255	

<210> 3

<211> 24

<212> PRT

<213> Mus musculus

<400> 3
 Cys Arg Val Cys Ala Gly Tyr Phe Arg Phe Lys Lys Phe Cys Ser Ser
 1 5 10 15
 Thr His Asn Ala Glu Cys Glu Cys
 20

<210> 4
 <211> 22
 <212> PRT
 <213> Drosophila

<400> 4
 Cys Pro Val Cys Phe Asp Tyr Val Ile Leu Gln Cys Ser Ser Gly His
 1 5 10 15
 Leu Val Cys Val Ser Cys
 20

<210> 5
 <211> 26
 <212> PRT
 <213> Dictyostelium

<400> 5
 Cys Pro Ile Cys Phe Glu Phe Ile Tyr Lys Lys Gln Ile Tyr Gln Cys
 1 5 10 15
 Lys Ser Gly His His Ala Cys Lys Glu Cys
 20 25

<210> 6
 <211> 6
 <212> PRT
 <213> Mus musculus

<220>
 <221> SITE
 <222> (1)...(6)
 <223> Xaa = Any Amino Acid

<400> 6
 Val Gln Asn Ser Xaa Asp
 1 5

<210> 7
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> An artificial peptide

<400> 7
 Cys Arg Pro Gly Gln Glu Leu Thr Lys Ser Gly Tyr
 1 5 10

<210> 8
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> A conserved pattern

<221> SITE

<222> (1)...(24)

<223> Xaa = Any Amino Acid

<400> 8

Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
1 5 10 15
Xaa His Xaa Xaa Xaa Cys Xaa Cys
20

<210> 9

<211> 4

<212> PRT

<213> Mus musculus

<400> 9

Cys Arg Cys Pro
1

<210> 10

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> A consensus sequence

<221> SITE

<222> (1)...(4)

<223> Xaa = Any Amino Acid

<400> 10

Cys Xaa Cys Pro
1

<210> 11

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> A primer

<400> 11

acctcgaggt cctgtgcatg tgaca

25

<210> 12

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> A primer

<400> 12

atgaattctt actgcaggag tgccc

25

<210> 13

<211> 11

<212> PRT

<213> Mus musculus

<400> 13

Cys Arg Pro Gly Gln Glu Leu Thr Lys Gln Gly

1

5

10